

Docket No.: 50060/50006  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Application of: Didier Pribat et al

Application No.: 10/574,186

Confirmation No : 7438

Filed: March 30, 2006

Art Unit: 1754

For: A Method of Synthesizing Nanoscale  
Filamentary Structures, and Electronic  
Components Comprising Such Structures

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Examiner: To be assigned

**REQUEST FOR REPUBLICATION PURSUANT TO 37 CFR 1.221(a)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Applicants hereby request republication of the above-referenced application after the following U.S. Patent and Trademark Office errors have been corrected.

1. The above-referenced application, which published as US2006/0292870 only lists a single inventor by the name of Didier Pribat. However, the application as filed included three inventors. In addition to Mr. Pribat, Mr. Jean-Eric Wegrowe, and Mr. Travis Wade should be listed. A copy of the Application Data Sheet as filed with the application and listing the three inventors is attached as Exhibit A for the reference of the Patent Office.

2. The nationality of the first named inventor, Didier Pribat, is incorrectly listed on the publication as being (US) when in fact, Mr. Pribat is a citizen of France. Again, this information was correctly listed on the Application Data Sheet as filed.

3. The publication correctly lists the PCT application to which this U.S. application claims priority by way of being a national phase application, but does not make

reference to the French patent application to which the PCT application claims priority and thus by which the U.S. application claims ultimate priority as well. That French priority application number is FR 03 11959 and was filed on October 13, 2003. Again, this information was filed with the application and is listed on the enclosed Application Data Sheet.

4. The correspondence address contains a misspelling. It should list Miller, Matthias & Hull, not Miller, Matthis & Hull. A copy of the application transmittal sheet as filed with the application and correctly listing the correspondence address is enclosed as Exhibit B.

5. The application was filed with a preliminary amendment. However, some of the changes set forth therein are incorporated in the application as published, but some are not. More specifically, the reference numerals are deleted from the abstract, but the application section headings have not been added. A copy of the preliminary amendment filed with the application is enclosed as Exhibit C.

In light of the foregoing, Applicants respectfully request that the application be republished under the provisions of 37 CFR 1.221(a) with the above-noted U.S. PTO errors corrected. The publication fee and processing fee under 37 CFR 1.18(d), and 37 CFR 1.17(i), respectively, will be paid electronically.

Dated: March 1, 2007

Respectfully submitted,

By 

Thomas A. Miller

Registration No.: 40,091

MILLER, MATTHIAS & HULL

One North Franklin Street

Suite 2350

Chicago, Illinois 60606

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Attorney for Applicant

# EXHIBIT A

## **Application Data Sheet**

### **Application Information**

Application Type::	Regular
Subject Matter::	Utility
Suggested Group Art Unit::	N/A
CD-ROM or CD-R?::	None
Sequence submission?::	None
Computer Readable Form (CRF)?::	No
Title::	A Method of Synthesizing Nanoscale Filamentary Structures, and Electronic Components Comprising Such Structures
Attorney Docket Number::	28944/50030
Request for Early Publication?::	No
Request for Non-Publication?::	No
Total Drawing Sheets::	8
Suggested Dwg. Figure for Pub.::	N/A
Small Entity?::	No
Petition included?::	No
Secrecy Order in Parent Appl.?::	No

### **Applicant Information**

Applicant Authority Type::	Inventor
Primary Citizenship Country::	France
Status::	Full Capacity
Given Name::	Didier
Family Name::	Pribat
City of Residence::	Sevres
Country of Residence::	France
Street of mailing address::	1, rue Leon Bourgeois
City of mailing address::	Sevres
Country of mailing address::	France
Postal or Zip Code of mailing address::	92310

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: France  
Status:: Full Capacity  
Given Name:: Jean-Eric  
Family Name:: Wegrowe  
City of Residence:: Paris  
Country of Residence:: France  
Street of mailing address:: 5, rue Monticelli  
City of mailing address:: Paris  
Country of mailing address:: France  
Postal or Zip Code of mailing address:: 75014

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: France  
Status:: Full Capacity  
Given Name:: Travis  
Family Name:: Wade  
City of Residence:: Paris  
Country of Residence:: France  
Street of mailing address:: 17, cite Bauer  
City of mailing address:: Paris  
Country of mailing address:: France  
Postal or Zip Code of mailing address:: 75014

### **Correspondence Information**

Correspondence Customer Number:: 57726

### **Representative Information**

Representative Customer Number:: 57726

### Domestic Priority Information

Application::	Continuity Type::	Parent Application::	Parent Filing Date::
This Application	National Stage of	PCT/FR2004/02584	10/12/2004

### Foreign Priority Information

Country::	Application number::	Filing Date::	Priority Claimed::
France	FR 03 11959	10/13/2003	Yes

### Assignee Information

Assignee name:: Centre National De La Recherche  
Scientifique – CNRS  
Street of mailing address:: 3, rue Michel-Ange  
City of mailing address:: Paris  
Country of mailing address:: France  
Postal or Zip Code of mailing address:: 75794

Assignee name:: Ecole Polytechnique  
Street of mailing address::  
City of mailing address::  
Country of mailing address::  
Postal or Zip Code of mailing address::

# **EXHIBIT B**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER

28944/50030

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

INTERNATIONAL APPLICATION NO.

PCT/FR2004/002584 US

INTERNATIONAL FILING DATE

12 October 2004

PRIORITY DATE CLAIMED

13 October 2003

TITLE OF INVENTION

A METHOD OF SYNTHESIZING NANOSCALE FILAMENTARY STRUCTURES, AND  
ELECTRONIC COMPONENTS COMPRISING SUCH STRUCTURES

APPLICANT(S) FOR DO/EO/US

Didier Pribat, et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

- 1 ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371
- 2 ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371
- 3 ☐ This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below
- 4 ☐ The US has been elected (Article 31).
- 5 ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - a ☐ is attached hereto (required only if not communicated by the International Bureau)
  - b ☒ has been communicated by the International Bureau.
  - c ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
- 6 ☒ An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2))
  - a ☒ is attached hereto
  - b ☐ has been previously submitted under 35 U.S.C. 154(d)(4)
- 7 ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a ☐ are attached hereto (required only if not communicated by the International Bureau)
  - b ☐ have been communicated by the International Bureau.
  - c ☐ have not been made; however, the time limit for making such amendments has NOT expired
  - d ☒ have not been made and will not be made
- 8 ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3))
- 9 ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4))
- 10 ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5))

Items 11 to 20 below concern document(s) or information included:

- 11 ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98
- 12 ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- 13 ☒ A preliminary amendment
- 14 ☒ An Application Data Sheet under 37 CFR 1.76
- 15 ☐ A substitute specification
- 16 ☐ A power of attorney and/or change of address letter
- 17 ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter 2 and 37 CFR 1.821 - 1.825
- 18 ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
- 19 ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
- 20 ☒ Other items or information: Return receipt postcard



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO. PCT/FR2004/002584 US		ATTORNEY'S DOCKET NUMBER 28944/50030	
The following fees have been submitted				CALCULATIONS	PTO USE ONLY
21.	<input checked="" type="checkbox"/>	Basic national fee (37 CFR 1.492(a))		\$ 300.00	
22.	<input checked="" type="checkbox"/>	Examination fee (37 CFR 1.492(c))			
If the written opinion prepared by ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)... \$0					
All other situations \$200				\$ 200.00	
23.	<input checked="" type="checkbox"/>	Search fee (37 CFR 1.492(b))			
If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) . \$0					
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority... \$100					
International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB \$400					
All other situations \$500				\$ 400.00	
TOTAL OF 21, 22 and 23 =				\$ 900.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j))					
The fee is \$250 for each additional 50 sheets of paper or fraction thereof					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
30 - 100 =	/50 =		x \$250.00		
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	25- 20 =	5	x 50.00	\$ 250.00	
Independent claims	2 - 3 =	0	x 200.00	\$	
MULTIPLE DEPENDENT CLAIM(s) (if applicable)			+ 360.00	\$	
TOTAL OF ABOVE CALCULATIONS =				\$ 250.00	
<input type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27 Fees above are reduced by 1/2				\$	
SUBTOTAL =				\$	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (i)).				+	\$
TOTAL NATIONAL FEE =				\$	
Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+	\$
TOTAL FEES ENCLOSED =				\$ 1,150.00	
				Amount to be refunded:	\$
				Amount to be charged:	\$
a.	<input checked="" type="checkbox"/>	A check in the amount of \$ 300.00 to cover the above fees is enclosed.			
b.	<input type="checkbox"/>	Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed			
c.	<input type="checkbox"/>	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. _____ A duplicate copy of this sheet is enclosed			
d.	<input type="checkbox"/>	Fees are to be charged to a credit card <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.			
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:					
CUSTOMER NUMBER: 57726					
Thomas A. Miller					
Miller, Matthias & Hull					
One North Franklin					
Suite 2350					
Chicago, IL 60606					
SIGNATURE:					
NAME: Thomas A. Miller					
REGISTRATION NUMBER 40,091					

# EXHIBIT C

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE AS  
DESIGNATED/ELECTED OFFICE

Applicant: Didier Pribat, et al.	)	Title: A Method of Synthesizing Nanoscale
	)	Filamentary Structures, and Electronic
Serial No.: To be assigned	)	Components Comprising Such Structures
	)	
Intl. Appl. No.: PCT/FR2004/02584 US	)	Group Art Unit: To be assigned
	)	
Intl Filing Date: 12 October 2004	)	Examiner: To be assigned
	)	
		Filed: Herewith

PRELIMINARY AMENDMENT ACCOMPANYING FILING OF NATIONAL STAGE  
APPLICATION UNDER 35 U.S.C. 371

*Mail Stop PCT*  
*Commissioner for Patents*  
*P.O. Box 1450*  
*Alexandria, Virginia 22313-1450*

Sir:

Prior to examination, please amend the accompanying application as follows:

**Amendments to the Specification** begin on page 2 of this paper.

**Amendment to the Abstract** begin on page 3 of this paper.

**Remarks/Arguments** begin on page 4 of this paper.

**Amendments to the Specification:**

At page 1, immediately after the title on line 4, please insert the following paragraph:

**--Cross-Reference to Related Application**

This is the U.S. National Phase of International Application No. PCT/FR2004/02584 filed 12 October 2004, the entire disclosure of which is incorporated herein by reference. --

At page 1, line 4, please insert the following heading:

**--Field of the Invention--**

At page 1, line 7, please insert the following heading:

**--Background of the Invention--**

At page 2, line 1, please insert the following heading:

**--Summary of the Invention--**

At page 5, line 10, please insert the following heading:

**--Brief Description of the Drawings--**

At page 6, line 10, please insert the following heading:

**--Description of Preferred Embodiments--**

### IN THE ABSTRACT

A method of synthesizing electronic components incorporating nanoscale filamentary structures in which method a metallic catalyst (7) is deposited in a nanoporous membrane (3), the catalyst being adapted to penetrate in at least some of the pores (8) of the nanoporous membrane (3), and filamentary structures are grown on the catalyst in at least some of the pores (8) in the nanoporous membrane (3). The nanoporous membrane (3) is prepared in a manner suitable for ensuring that the wall of the pores (8) include a single-crystal zone, and at least part of the catalyst (7) is grown epitaxially on said single-crystal zone.

## REMARKS

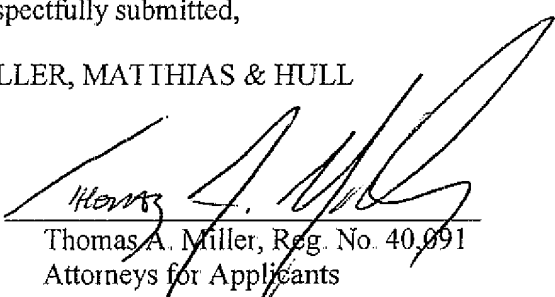
By the foregoing amendments, the specification has been revised to provide a cross-reference to the international application and appropriate headings. In addition, the abstract has been amended to omit reference numerals to better conform to U.S. practice.

The filing fee has been calculated based on the claims as amended above. No new matter has been added.

Respectfully submitted,

MILLER, MATTHIAS & HULL

By:

  
Thomas A. Miller, Reg. No. 40,091  
Attorneys for Applicants

March 30, 2006

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